ATENT COOPERATION TREATY

Doc. Ref. **AS21** Appl. No. 09/608,066

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	TOD THE THE CONTROL OF THE CONTROL O	4.T
	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
0942.499PC01	ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/18256	30/06/2000	02/07/1999
Applicant		
LIFE TECHNOLOGIES, INC.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This lateractional County Days 4	E	
This International Search Report consists X	of a total of sheets. a copy of each prior art document cited in this	report
K is also accompanied by	a copy of each phot art document cited in this	терот.
Basis of the report		
 a. With regard to the language, the language in which it was filed, unload. 	international search was carried out on the basess otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this
b. With regard to any nucleotide and was carried out on the basis of the	d/or amino acid sequence disclosed in the in	ternational application, the international search
	nal application in written form.	
<u> </u>	rnational application in computer readable forn	٦.
furnished subsequently to	this Authority in written form.	
_	this Authority in computer readble form.	
the statement that the sub	sequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been
2 Y Contain alaima tarr		
. A	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the title,		
the text is approved as sut	bmitted by the applicant	
	ned by this Authority to read as follows:	
	, , , , , , , , , , , , , , , , , , , ,	•
5. With regard to the abstract,		
X the text is approved as sub		
the text has been establish within one month from the	ned, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawlngs to be public		
as suggested by the applic		None of the figures.
because the applicant faile		Tronc of the figures.
	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

PCT/US 00/18256

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/11 C12N15/10

C12Q1/68

A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ C12N \ C12Q \ A61K$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EMBL, EPO-Internal, WPI Data, BIOSIS, MEDLINE, CHEM ABS Data

C. DOCUMENTS	CONSIDERED	то ве	RELEVANT

25 October 2000

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Name and mailing address of the ISA

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 763 173 A (LARRY GOLD ET AL.) 9 June 1998 (1998-06-09) column 3, line 47 -column 4, line 3 column 6, line 41 -column 7, line 36; claims; examples 1,2	1-9, 12-25, 30-32,35
X	WO 96 41010 A (NEXSTAR PHARMACEUTICALS) 19 December 1996 (1996-12-19) page 9, line 5 -page 10, line 23 page 22, line 12 -page 24, line 25; tables 1-5 /	1-9, 12-24, 30-32,35

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report

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Authorized officer

07/11/2000

Montero Lopez, B

INTEPNATIONAL SEARCH REPORT

PCT/US 00/18256

Relevant to claim No.
Relevant to claim No.
1,3-6,8, 10,35, 47,50, 51,53, 55-59
1-8,10, 11,35, 47,50, 51,53, 56,58,59
47,50,51
36-42

2

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: partially 1, 3-17, 19-23, 25-35

Present claims 1, 3-17, 19-23 and 25-35 relate to a compound defined by reference to a desirable characteristic or property, namely capable of binding or having affinity to an enzyme with polymerase activity. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the nucleic acid inhibitors mentioned in examples 1 and 7.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/US 00/18256

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 52 and 58, and claims 43-51, 56 and 57 as far as concerning an in vivo method, are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. 2. X Claims Nos.: partially 1, 3-17, 19-23, 25-35
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
See FURTHER INFURMATION SHeet FCT/ 13A/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTEPNATIONAL SEARCH REPORT

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PCT/US 00/18256

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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